

AMENDMENTS TO THE CLAIMS

**The claims in this listing will replace all prior versions, and listings, of claims in the application.**

1-6. (Canceled)

7. (Previously Presented) A correlation system comprising:

a frequency adding means for receiving a reference signal  $R0(t)$  and adding thereto a predetermined plurality  $n$  of frequency components ( $F1$ - $Fn$ ) to output a resultant reference signal  $R1(t)$ - $Rn(t)$ , wherein  $n$  and  $t$  are integers;

an adder for receiving  $n$  reference signals  $R1(t)$ - $Rn(t)$  and a single said reference signal  $R0(t)$  as a base and adding them together to output a corrected reference signal  $R(t)$ ; and

a correlator for taking a correlation between a measurement signal  $S(t)$  and said corrected reference signal  $R(t)$  to output a correlation output signal.

8. (Currently Amended) A correlation system according to claim 7, wherein the frequency adding means multiplies the reference signal  $R0(t)$  by  $[[e^{j\omega t}]] e^{j\omega t}$ , where  $\omega = 2\pi f$  ( $f$  is a frequency).

9. (Original) A correlation system according to claim 7, wherein the frequency adding means outputs an exclusive logical sum (EXOR) between digital clocks of frequencies corresponding to the frequency components ( $F1$ - $Fn$ ) and the reference signal  $R0(t)$ .

10. (Canceled)

11. (Previously Presented) A correlation system according to claim 7, wherein the measurement signal  $S(t)$  is a reception signal of a spread spectrum signal.

12. (Canceled)

13. (Original) A correlation system according to claim 7, wherein the measurement signal  $S(t)$  is a spectrum spread signal of a W-CDMA system.

14. (Canceled)

15. (Previously Presented) A correlation method comprising:

a frequency adding step for receiving a reference signal  $R0(t)$  and adding thereto a predetermined plurality  $n$  of frequency components ( $F1-Fn$ ) to output a resultant reference signal  $R1(t)-Rn(t)$ , wherein  $n$  and  $t$  are integers;

an adding step for receiving  $n$  reference signals  $R1(t)-Rn(t)$  and a single said reference signal  $R0(t)$  as a base and adding them together to output a corrected reference signal  $R(t)$ ; and

a correlating step for taking a correlation between a measurement signal  $S(t)$  and said corrected reference signal  $R(t)$  to output a correlation output signal.

16. (Canceled)

17-19.(Canceled)

20. (Previously Presented) A correlation system comprising:

a frequency adding device that receives a reference signal  $R0(t)$  and adds thereto a predetermined plurality  $n$  of frequency components ( $F1-Fn$ ) to output a resultant reference signal  $R1(t)-Rn(t)$ , wherein  $n$  and  $t$  are integers;

an adder that receives  $n$  reference signals  $R1(t)-Rn(t)$  and a single said reference signal  $R0(t)$  as a base and adds them together to output a corrected reference signal  $R(t)$ ; and

a correlator that takes a correlation between a measurement signal  $S(t)$  and said corrected reference signal  $R(t)$  to output a correlation output signal.

21. (Canceled)